This Page is Inserted by IFW Indexing and Scanning Operations and is not part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

☐ BLACK BORDERS
☐ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
☐ FADED TEXT OR DRAWING
☐ BLURRED OR ILLEGIBLE TEXT OR DRAWING
☐ SKEWED/SLANTED IMAGES
☐ COLOR OR BLACK AND WHITE PHOTOGRAPHS
☐ GRAY SCALE DOCUMENTS
☐ LINES OR MARKS ON ORIGINAL DOCUMENT
☐ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY

IMAGES ARE BEST AVAILABLE COPY.

☐ OTHER: _

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.



(11) Publication number:

07130349 A

Generated Document.

PATENT ABSTRACTS OF JAPAN

(21) Application number: 05276519

(51) Intl. Cl.: H01M 2/16

(22) Application date: **05.11.93**

(30) Priority:

(43) Date of application

19.05.95

publication:

tina

(84) Designated contracting

states:

(71) Applicant: SONY CORP

(72) Inventor: TAKAHASHI NOBORU

(74) Representative:

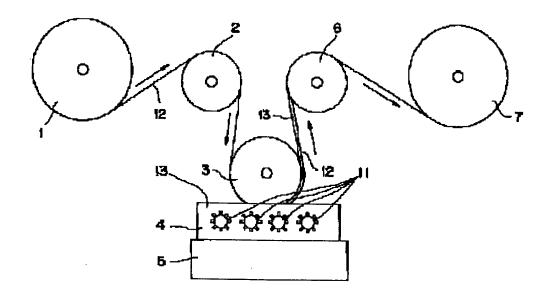
(54) MANUFACTURE OF SEPARATOR FOR BATTERY

(57) Abstract:

PURPOSE: To prepare a precise separator extremely easily within a short time by combining a porous film and a low molecular weight polyolefine with optional melting point; wherein the fine pores of the film in the separator can be closed at optional temperature.

CONSTITUTION: A charged porous film 12 is sent to a heater roller 3 set at the temperature lower by 0.5 to several degrees than the melting point of low molecular weight polyolefinebased wax fine particles 13 which are to be thermally pressed to the film, and then the porous film 12 charged by the heater roller 3 is sent to a wax fine particle stirring tank 4 filled with the wax fine particles 13 through an open mouth part 4a. As a result, the wax fine particles 13 adhere to the charged porous film 12 due to electrostatic force and the wax fine particles 13 are immediately softened and stuck to the porous film 12.

COPYRIGHT: (C)1995,JPO



PATENT ABSTRACTS OF JAPAN

(11)Publication number:

07-130349

(43) Date of publication of application: 19.05.1995

(51)Int.CI.

H01M 2/16 // H01M 10/40

(21)Application number : 05-276519

(71)Applicant : SONY CORP

(22)Date of filing:

05.11.1993

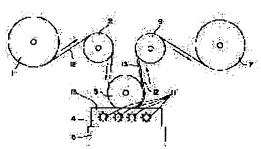
(72)Inventor: TAKAHASHI NOBORU

(54) MANUFACTURE OF SEPARATOR FOR BATTERY

(57) Abstract:

PURPOSE: To prepare a precise separator extremely easily within a short time by combining a porous film and a low molecular weight polyolefine with optional melting point; wherein the fine pores of the film in the separator can be closed at optional temperature.

CONSTITUTION: A charged porous film 12 is sent to a heater roller 3 set at the temperature lower by 0.5 to several degrees than the melting point of low molecular weight polyolefine-based wax fine particles 13 which are to be thermally pressed to the film, and then the porous film 12 charged by the heater roller 3 is sent to a wax fine particle stirring tank 4 filled with the wax fine particles 13 through an open mouth part 4a. As a result, the wax fine particles 13 adhere to the charged porous film 12 due to electrostatic force and the wax fine particles 13 are immediately softened and stuck to the porous film 12.



LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

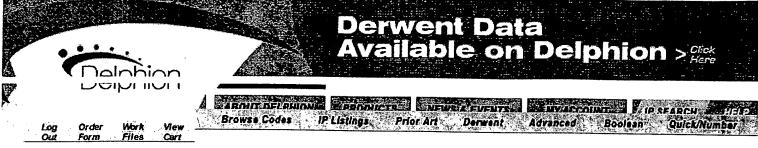
[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2000 Japan Patent Office



The Delphion Integrated View

Other Views: **INPADOC**

Title:

JP7130349A2: MANUFACTURE OF SEPARATOR FOR BATTERY

Want to see a more descriptive title highlighting what's new about this invention?

Country:

JP Japan

Kind:

Inventor(s):

TAKAHASHI NOBORU

Applicant/Assignee: Inquire Regarding Licensing **SONY CORP**

News, Profiles, Stocks and More about this company

Issued/Filed Dates:

May 19, 1995 / Nov. 5, 1993

Application Number:

JP1993000276519

IPC Class:

H01M 2/16; H01M 10/40;

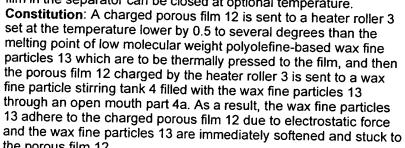
Priority Number(s):

Jusiness Intelligence Reports

Nov. 5, 1993 JP1993000276519

Abstract:

Purpose: To prepare a precise separator extremely easily within a short time by combining a porous film and a low molecular weight polyolefine with optional melting point; wherein the fine pores of the film in the separator can be closed at optional temperature.



the porous film 12.

COPYRIGHT: (C)1995, JPO

See a clear and precise summary of the whole patent, in understandable terms.

Family:

Show known family members

Other Abstract Info:

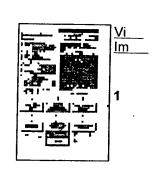
CHEMABS 123(10)118558Z CAN123(10)118558Z DERABS C95-218553

DERC95-218553

Foreign References:

No patents reference this one







Nominate this for the Gallery...

.

Subscribe | Privacy Policy | Terms & Conditions | FAQ | Site Map | Help | Contact Us
© 1997 - 2002 Delphion Inc.